

# Yoyo Hinuma

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,280  
citations

567144

15  
h-index

610775

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1903  
citing authors

#	ARTICLE	IF	CITATIONS
1	Band structure diagram paths based on crystallography. Computational Materials Science, 2017, 128, 140-184.	1.4	457
2	Band alignment of semiconductors from density-functional theory and many-body perturbation theory. Physical Review B, 2014, 90, .	1.1	271
3	Density Functional Theory Calculations of Oxygen Vacancy Formation and Subsequent Molecular Adsorption on Oxide Surfaces. Journal of Physical Chemistry C, 2018, 122, 29435-29444.	1.5	103
4	Comparison of approximations in density functional theory calculations: Energetics and structure of binary oxides. Physical Review B, 2017, 96, .	1.1	85
5	Band offsets of CuInSe <sub>2</sub> and CdS and CuInSe <sub>2</sub> /ZnS (110) interfaces: A hybrid density functional theory study. Physical Review B, 2013, 88, .	1.1	50
6	Categorization of surface polarity from a crystallographic approach. Computational Materials Science, 2016, 113, 221-230.	1.4	43
7	Band alignment at surfaces and heterointerfaces of Al <sub>2</sub> O <sub>3</sub> /Ga <sub>2</sub> O <sub>3</sub> . Physical Review Materials, 2019, 3, .	0.9	32
8	Effects of composition, crystal structure, and surface orientation on band alignment of divalent metal oxides: A first-principles study. Physical Review Materials, 2018, 2, .	0.9	24
9	Linear Correlations between Adsorption Energies and HOMO Levels for the Adsorption of Small Molecules on TiO <sub>2</sub> Surfaces. Journal of Physical Chemistry C, 2019, 123, 20988-20997.	1.5	23
10	Changes in Surface Oxygen Vacancy Formation Energy at Metal/Oxide Perimeter Sites: A Systematic Study on Metal Nanoparticles Deposited on an In <sub>2</sub> O <sub>3</sub> (111) Support. Journal of Physical Chemistry C, 2020, 124, 27621-27630.	1.5	22
11	Frontier Molecular Orbital Based Analysis of Solid Adsorbate Interactions over Group 13 Metal Oxide Surfaces. Journal of Physical Chemistry C, 2020, 124, 15355-15365.	1.5	22
12	Finding a junction partner for candidate solar cell absorbers enargite and bournonite from electronic band and lattice matching. Journal of Applied Physics, 2019, 125, .	1.1	19
13	Surface Oxygen Vacancy Formation Energy Calculations in 34 Orientations of In <sub>2</sub> -Ga <sub>2</sub> O <sub>3</sub> and In-Al <sub>2</sub> O <sub>3</sub> . Journal of Physical Chemistry C, 2020, 124, 10509-10522.	1.5	19
14	Effect of Oxygen Vacancies on Adsorption of Small Molecules on Anatase and Rutile TiO <sub>2</sub> Surfaces: A Frontier Orbital Approach. Journal of Physical Chemistry C, 2021, 125, 3827-3844.	1.5	18
15	Reaction Mechanism of Li <sub>2</sub> MnO <sub>3</sub> Electrodes in an All-Solid-State Thin-Film Battery Analyzed by Operando Hard X-ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2022, 144, 236-247.	6.6	16
16	Valence band offsets at zinc-blende heterointerfaces with misfit dislocations: A first-principles study. Physical Review B, 2013, 88, .	1.1	15
17	The effect of cation size on hydride-ion conduction in LnSrLiH <sub>2</sub> O <sub>2</sub> (Ln = La, Tj) ETQq1 1 0.784314 rgBT / Overl	5.2	15
18	Reactions of the Li <sub>2</sub> MnO <sub>3</sub> Cathode in an All-Solid-State Thin-Film Battery during Cycling. ACS Applied Materials & Interfaces, 2021, 13, 7650-7663.	4.0	13

#	ARTICLE	IF	CITATIONS
19	Factors determining surface oxygen vacancy formation energy in ternary spinel structure oxides with zinc. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23768-23777.	1.3	12
20	Surface activation by electron scavenger metal nanorod adsorption on $\text{TiH}_{2}$ , TiC, TiN, and $\text{Ti}_{2}\text{O}_{3}$ . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16577-16593.	1.3	9
21	Experimental and Theoretical Investigation of Metal-Support Interactions in Metal-Oxide-Supported Rhenium Materials. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4472-4482.	1.5	5
22	A simplified methodology for the modeling of interfaces of elementary metals. <i>AIP Advances</i> , 2021, 11, .	0.6	3
23	Understanding and controlling the formation of surface anion vacancies for catalytic applications. <i>Catalysis Science and Technology</i> , 2022, 12, 2398-2410.	2.1	2
24	Trends in Surface Oxygen Formation Energy in Perovskite Oxides. <i>ACS Omega</i> , 2022, 7, 18427-18433.	1.6	2
25	Categorization of inorganic crystal structures by Delaunay tetrahedralization. <i>Science and Technology of Advanced Materials Methods</i> , 2022, 2, 75-83.	0.4	0